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"AS-BUILT" DESIGN SPECIFICATION  
FOR  
SCATTER PLOTS FOR DIRECT WHEAT

Job Order 71-475

TIRF 78-0027

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FOR SCATTER PLOTS FOR DIRECT WHEAT (Lockheed  
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For

EARTH OBSERVATIONS DIVISION  
SCIENCE AND APPLICATIONS DIRECTORATE



*National Aeronautics and Space Administration*  
**LYNDON B. JOHNSON SPACE CENTER**  
*Houston, Texas*

October 1978

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FOR  
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FOR  
SCATTER PLOTS FOR DIRECT WHEAT  
TIRF 79-0001

Change 1  
March 1979



J. I. Morrow  
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Page 1 of 27 pages  
(with enclosures)

After the attached replacement pages have been inserted and the following pen and ink changes have been made, insert this change sheet between the cover and the title page and write on the cover "Change 1 inserted".

Note: A black bar in the margin of the replacement page indicates the information that was changed or added. Added and replaced pages are designated by a notation in the lower righthand corner.

1. Remove page 2-1 and insert replacement page 2-1.
2. Pages 3-10, para. 3.2, 3.3, change "called subroutines" to "calling routine".
3. Page 3-13, para. 3.2.5.1, change "SPLT" to "SWPLT".
4. Page 3-13, para. 3.2.5.3, change "(fig)" to "(fig 4)".
5. Remove Figure 4 (following page 3-13) and insert replacement Figure 4.
6. Remove page 3-14 and insert replacement page 3-14.
7. Remove page 3-16 and insert replacement page 3-16.
8. Remove CAMPLT output and CAMPLT listing (22 pages following page 3-17) and insert replacement CAMPLT output and CAMPLT listing (22 pages).

Signature of person incorporating changes

Date

LEC-12822

JSC- 14546

**"AS-BUILT" DESIGN SPECIFICATION  
FOR  
SCATTER PLOTS FOR DIRECT WHEAT**

**Job Order 71-475**

**TIRF 78-0027**

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**NATIONAL AERONAUTICS AND SPACE ADMINISTRATION  
LYNDON B. JOHNSON SPACE CENTER  
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**October 1978**

**LEC- 12822**

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## 1. SCOPE

This document describes the programs which together provide the capability of producing scatter plots in two different projections for use by CAMS in implementing the direct wheat procedure.

## 2. APPLICABLE DOCUMENTS

1. Giddings, L. E.; etal.  
"As-Built" Design Specification for the CAMS Image-100 Hybrid System. August 1977 Job Order 71-195, LEC-10822, Contract NAS-9-15800.
2. Earth Resources Data Format Control Book, Vol 1 Section 6 PHO-TR543.
3. CAMS/CAS Interface Tape Interface Control Document (Rev. B) Feb 1978 LACIE - C00708 (Rev. B) JSC-11328.
4. Software Requirements for Scatter Plots to Aid With Direct Wheat Procedures (TIRF 78-0027) 5/18/78.
5. Large Area Crop Inventory Experiment (LACIE) Users Guide Vol IBM - Federal Systems Division Contract NAS 9-14350.
6. TIRF 79-0001, Landsat "C" Upgrade to "CAMPLT".

Change 1  
March 8, 1979

### 3. SYSTEM DESCRIPTION

#### 3.1 HARDWARE DESCRIPTION

Not applicable.

#### 3.2 SOFTWARE DESCRIPTION

The programs described herein provide the capability to load the spring wheat data file with spectral values from spectral unload tapes, and analyst labels from CAMS/CAS Interface tapes, then, under analyst control, produce spectral plots using this data. These programs are run separately in batch mode.



### 3.2.1 SOFTWARE COMPONENT NO. 1 (DOTLDB)

The program DOTLDB (DOT LOAD BATCH) reads a spectral unload utility tape and stores the spectral values found there for the 209 grid points in the Spring Wheat Data File. This data is loaded in 'natural' dot order.

### 3.3. DATA FLOW

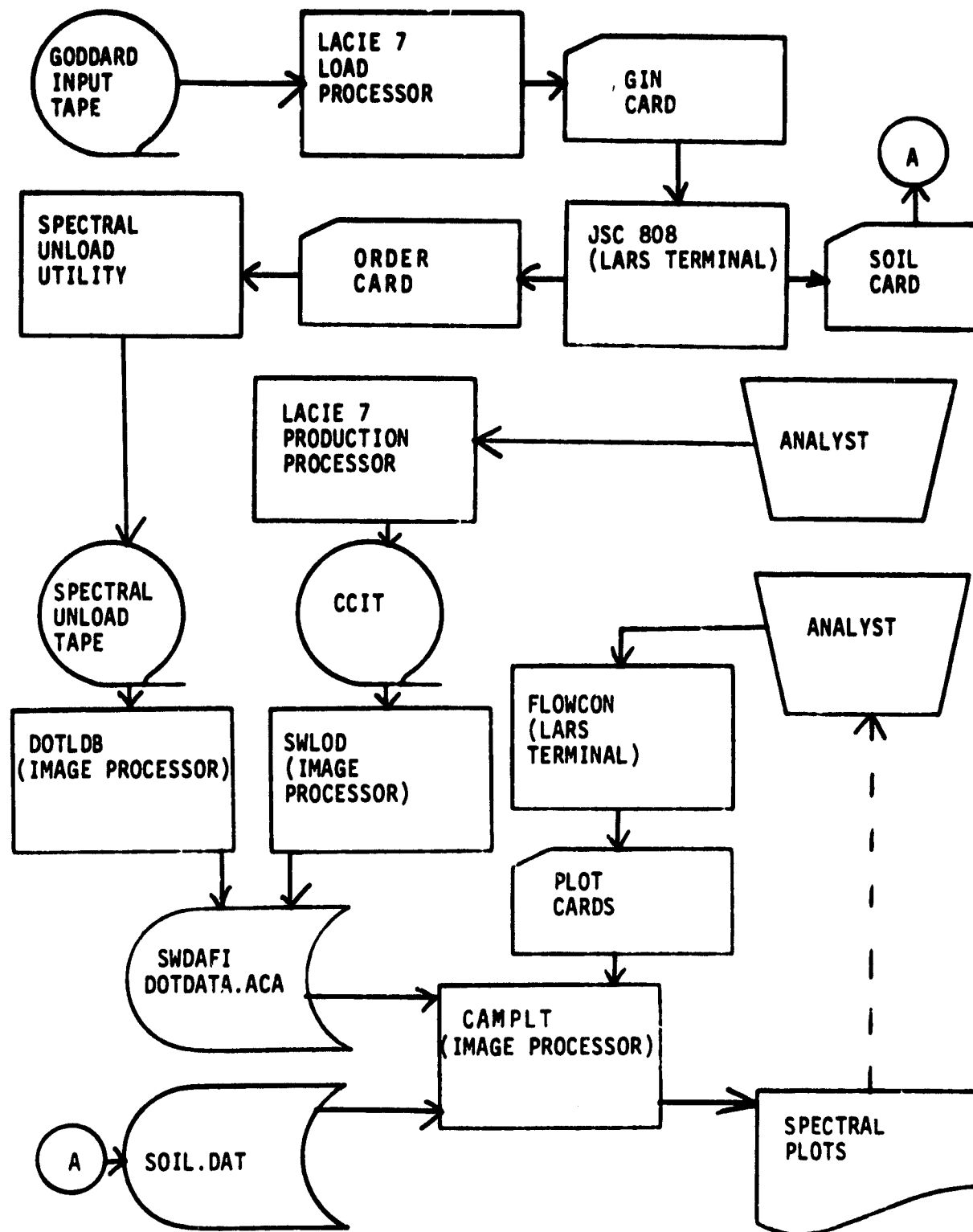


Figure 1 Data Flow

### 3.2.1.1 Linkages

DOTLDB run in batch mode. It calls several entries to LECTAP: EBTASC, IDATE, SWAB, TATCH, TFILE, TIME, TINIT, TREAD, TRWD, TWAIT (ref.1)

In addition it calls STORX.

### 3.2.1.2 Interfaces

Entries to LECTAP interface through the calling sequence and and through labeled common /STATUS/.

The interface to STORX is through the calling sequence and the labeled common /ANCIL/.

### 3.2.1.3 Inputs

DOTLDB is run in batch mode by the following deck:

```
$JOB/NAME=CAMS/MCK/ACCOUNT=160 250
$DATA
0 0 999
$EUD
$MCK RUN DOTLDB
$EUD
```

DOTLDB reads a spectral unload utility tape from the ERIPS system. A spectral unload utility tape is in universal format. The header is identical to the usual image unload tape header. The image is replaced with spectral values for the 209 grid points. One tape may contain 1000 acquisitions. DOTLDB will handle 999 acquisitions.

### 3.2.1.4 Outputs

DOTLDB creates a report on the line printer reporting each segment loaded to the Spring Wheat Data File (fig2 ).

## SPECTRAL DATA UNLOAD REPORT 'SMCHNO'

PAGE 1

DATE 0/20/78  
FILE 14025126

SECRET NO. YEAR JULIAN DATE

M 772XX

1644	78	257
194	78	257
193	78	257
1567	78	257
1648	78	257
867	78	257
878	78	257
894	78	257
893	78	257
870	78	257
882	78	257
849	78	257
879	78	257
875	78	257
868	78	257
884	78	257
863	78	257
866	78	257
872	78	257
898	78	257
885	78	257
890	78	257
139	78	257
883	78	257
894	78	257
874	78	257
855	78	257
886	78	257
892	78	257
842	78	257
809	78	257
806	78	257
136	78	257
202	78	257
217	78	257
1603	78	246
821	78	215
808	78	215
160	78	215
119	78	215
219	78	215
813	78	215
102	78	215
810	78	215
106	78	215
168	78	215
812	78	215
105	78	215
811	78	215
174	78	215

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Figure 2 DOWNS REPORT 1978

The spectral values for 209 points are passed to STORX to be stored in [200,7] DOTDATA.ACA under the code 'SWCHJ' where J=1, ...,4 is the channel number, with the acquisition date for date (DAT(1), DAT(2)).

#### 3.2.1.5 Storage

Total space allocated = 6727.

#### 3.2.1.6 Description

DOTLDB first reads the batch deck to identify the tape drive used and the number of acquisitions to be loaded. It then initializes the tape drive and starts processing. The processing is accomplished in a DO Loop which reads the header, obtains the segment number and date, then reads the dot data. The dot data is loaded into 4 linear arrays (CHJ(209), J=1,4) in natural order, not the order implied by the (11,19) dimensioning in STORX, and passed to STORX for storing. After this processing, is complete, for all acquisitions, the tape is rewound and a line printer report is created.

#### 3.2.1.7 Flowchart

Not applicable.

#### 3.2.1.8 Listing



PCJYHAY 170PLUS V02-51 87053136 00SEP78 PAGE 2  
 DTLDG,STA /T08HACMS/HR

```

0039 20 20 R=1,T0TEIL
0040 CALL TREAD(2,BUFF1,1500)
0041 CALL TATT(2)
0042 IF(1.EQ.X6A) GO TO 33
0043 CALL S4A3(SEGN)
0044 CALL PRTASC(BUFF1(2749),4(1),3)
0045 C(1)=A(2)
0046 C(2)=A(1)
0047 PRTASC(2,111,C(1)) DATE(1)
0048 CALL PRTASC(BUFF1(2251),A(1),3)
0049 C(1)=A(2)
0050 C(2)=A(1)
0051 C(3)=A(3)
0052 PRTASC(3,111,C(1)) DATE(2)
0053 K=K+1
0054 PRTFIL(1,XV)SEGN
0055 PRTFIL(2,XV)DATE(1)
0056 PRTFIL(3,XV)DATE(2)
0057 CALL TREAD(2,BUFF2,630)
0058 CALL TATT(2)
0059 IF(1.EQ.X36A) GO TO 30
0060 CALL TFILE(2,1)
0061 GO TO P=1,11 ILPAR CHANNEL ARRAYS (CH1 ETC.)
0062 J=1,X1(P) :1: NATURAL (1,11) ORDER
0063 K=1,X2(P) :1: (11,15) IMPLIED BY STOPX (AND FETCX)
0064 1 CH1(K)=BUFF2(J)
0065 CH2(K)=BUFF2(J+19)
0066 CH3(K)=BUFF2(J+35)
0067 CH4(K)=BUFF2(J+57)
0068 J=J+1
0069 K=K+1
0070 IF(1.EQ.(INDEX(P)-19)) GO TO 1
0071 10 CONTINUE
0072 CALL STOPX(SEGN,CH1,5K(P,10))
0073 CALL STOPX(SEGN,CH2,5K(P,20))
0074 CALL STOPX(SEGN,C 3,5K(P,30))
0075 CALL STOPX(SEGN,CH4,5K(P,40))
0076 CONTINUE
0077 20 CALL TATT(2)
0078 30 CALL TATT(2)
0079 DP 35 D=1,XX :WRITE THE LINE PRINTER REPORT
0080 IF(1.EQ.X5) GO TO 31
0081 30 LINC=LINC+1
0082 WRITE(6,112) (PRTFIL(G,D),G=1,3)
0083 GO TO 35
0084 31 LINC=0
0085 PAGE=PAGE+1
0086 WRITE(6,107) PAGE
0087 WRITE(6,113) X,Y,2
0088 WRITE(6,114) (E(L),L=1,4)
0089 WRITE(6,109)
0090 GO TO 32
0091 35 CONTINUE
0092 WRITE(6,104)
0093 STOP
0094 END

```

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PROGRAM SECTIONS

NUMBER	NAME	SIZE	ATTRIBUTES
1	CODE 1	001612	453
2	DATA 1	000114	38
3	DATA 2	000440	144
4	DATA 3	027500	6048
5	DATA 4	000004	2
6	DATA 5	000120	40
7	DATA 6	000004	2

VARIABLES

NAME	TYPE	ADDRESS	NAME	TYPE	ADDRESS	NAME	TYPE	ADDRESS
B	102	4-027464	CODE	102	6-000000	D	102	4-027472
J	102	4-027460	K	102	4-027470	L	102	4-027476
MTAFS	102	1-027441	P	102	4-027460	PAGE	102	4-027450
TRAFIL	102	4-027462	41	102	7-000000	42	102	7-000002
V	102	4-027451	Z	102	4-027450			

ARRAYS

NAME	TYPE	ADDRESS	SIZE	DIMENSIONS
A	101	4-000000	000010	4 (8)
AA	102	4-011270	000006	3 (2)
BUFF1	101	4-000010	005764	1536 (3060)
BUFF2	101	4-025056	012354	630 (1260)
C	101	4-027432	000004	2 (4)
CH1	102	4-005774	000642	219 (205)
CH2	102	4-005774	000642	219 (205)
CH3	102	4-007500	000642	219 (205)
CH4	102	4-010342	000642	219 (205)
DATA	102	4-000002	000004	2 (2)
E	102	4-011260	000010	4 (4)
F	101	4-000004	000004	2 (4)
FILL	102	4-000010	000110	36 (36)
INDX1	102	4-011274	000026	11 (11)
INDX2	102	4-011274	000026	11 (11)
PRIFIL	102	4-011276	013560	3070 (127000)

LABELS

LABEL	ADDRESS	LABEL	ADDRESS	LABEL	ADDRESS	LABEL	ADDRESS
1	1-010712	10	00	20	00	30	1-001124
32	1-001204	35	1-001542	100	3-000000	104	3-000002
107	3-000014	109	00	109	3-000104	110	00
112	3-010164	113	3-000204	114	3-000232	111	3-000160

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00-SEP-78

07153138

FORMAT IV-PLUS V02-01  
D01C0.FTN /TRIBL2CKS/NR

FUNCTIONS AND SUBROUTINES REFERENCED

ASSIGN	EXT	SC	ICATE	NPENS	STACK	SWAB	TATCH	TFILE	TIME	TINIT	TREAD	TRWD	TWAIT
TOTAL SPACE ALLOCATED = 032216 6727													
NO FPP INSTRUCTIONS GENERATED													
D01C06.LP10101TLCR													

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### 3.2.2 SOFTWARE COMPONENT NO. 2 (SWLOD)

SWLOD (Spring Wheat Load) reads a CCIT tape and, for each spring wheat segment, loads the analyst dot labels into the Spring Wheat Data File.

#### 3.2.2.1 Linkages

SWLOD runs in batch mode from a deck. It calls CDRED and LABLOD. CDRFD is documented in (ref.1).

#### 3.2.2.2 Interfaces

SWLOD and LABLOD interface with CDRED through the calling sequence and the labeled commons /CBIAS/, /DUMMY/, /CLCOM/. These are implemented by the statement INCLUDE 'COMMON1.DAT'.

#### 3.2.2.3 Inputs

The batch deck for SWLOD is:

```
$JOB/NAME=CAMS/MCK/ACCUUNT=160 250
$DATA
M
1
$EUD
$MCK RUN SWLOD
$EUD
```

SWLOD reads a standard LACIE 7 CAMS-CAS interface tape. Full description of this tape can be found in (ref.).

#### 3.2.2.4 Outputs

None.

#### 3.2.2.5 Storage

Total space allocated = 8015.

#### 3.2.2.6 Description

SWLOD is the driver for the program which loads analyst labels to Spring Wheat Data File. CDRED on first calling, determines from the batch deck, which tape unit to read. CDRED then reads one record. SWLOD tests each record to determine whether it is a header record or an End Of File record. For header records, segment number and spring wheat marker are obtained. If the spring wheat marker is 'S', then LABLOD is called when a 'D' record is found.

#### 3.2.2.7 Flowchart

Not applicable.

#### 3.2.2.8 Listing

3.2.2.8

F442AV 14-0105 VC2-51

07139143

14-SEP-78

PAGE 1

SALVAFY /TYPE/CKS/LH

C S-L-2 L-2AMS ANALYST LABELS FROM CCIT BSYZ KRDAPT DATA BASE

C A. A. BERRARDEN AUGUST 1978

C001 INCLUDE TYPE=H(A=2)

C002 INCLUDE TYPE=H(A=2)

C003 TYPE=H(A=2)

C004 TYPE=H(A=2)

C005 TYPE=H(A=2)

C006 TYPE=H(A=2)

C007 TYPE=H(A=2)

C008 TYPE=H(A=2)

C009 TYPE=H(A=2)

C010 TYPE=H(A=2)

C011 TYPE=H(A=2)

C012 TYPE=H(A=2)

C013 TYPE=H(A=2)

C014 TYPE=H(A=2)

C015 TYPE=H(A=2)

C016 TYPE=H(A=2)

C017 TYPE=H(A=2)

C018 TYPE=H(A=2)

C019 TYPE=H(A=2)

C020 TYPE=H(A=2)

C021 TYPE=H(A=2)

C022 TYPE=H(A=2)

C023 TYPE=H(A=2)

C024 TYPE=H(A=2)

C025 TYPE=H(A=2)

C026 TYPE=H(A=2)

C027 TYPE=H(A=2)

C028 TYPE=H(A=2)

C029 TYPE=H(A=2)

C030 TYPE=H(A=2)

C031 TYPE=H(A=2)

C032 TYPE=H(A=2)

C033 TYPE=H(A=2)

C034 TYPE=H(A=2)

C035 TYPE=H(A=2)

C036 TYPE=H(A=2)

C037 TYPE=H(A=2)

C038 TYPE=H(A=2)

C039 TYPE=H(A=2)

C040 TYPE=H(A=2)

C041 TYPE=H(A=2)

C042 TYPE=H(A=2)

C043 TYPE=H(A=2)

C044 TYPE=H(A=2)

C045 TYPE=H(A=2)

C046 TYPE=H(A=2)

C047 TYPE=H(A=2)

C048 TYPE=H(A=2)

C049 TYPE=H(A=2)

C050 TYPE=H(A=2)

C051 TYPE=H(A=2)

C052 TYPE=H(A=2)

C053 TYPE=H(A=2)

C054 TYPE=H(A=2)

C055 TYPE=H(A=2)

C056 TYPE=H(A=2)

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SECRET

NAME	TYPE	SIZE	ATTRIBUTES
1	PCDATA	000422	PH.L.CCN.LCL
2	PCDATA	000510	PH.L.CCN.LCL
3	PCDATA	000524	PH.L.CCN.LCL
4	PCDATA	000533	PH.L.CCN.LCL
5	PCDATA	000543	PH.L.CCN.LCL
6	PCDATA	000543	PH.L.CCN.LCL
7	PCDATA	000544	PH.L.CCN.LCL
8	PCDATA	000542	PH.L.CCN.LCL

## **Summary**

NAME	TYPE	ADDRESS	NAME	TYPE	ADDRESS	NAME	TYPE	ADDRESS	NAME	TYPE	ADDRESS
APDP	102	6-011133	AUTD2	102	6-013508	BACAYS	102	6-016032	BATY1	102	6-023352
AUT11	102	6-023354	CLANUM	102	7-000000	CLANUM	102	7-000002	DE	102	6-014200
FILE	102	4-000632	101	102	6-000636	102	102	6-000640	103	102	6-005672
1ARG	102	6-024774	PCC01	104	6-010100	PCC02	104	6-016104	PCC1	104	6-016070
PCC01	102	6-016120	PCC02	104	6-016124	PCC1	104	6-016110	PCC2	104	6-016074
S	101	4-005774	SEG	102	4-000646	SEG10	102	4-006630	TC	102	6-014204

SAT-1

NAME	TYPE	ADDRESS	SIZE	DIMENSIONS
A	02	6-014126	000030	12 (32)
AGAV	102	6-005726	000042	209 (11,19)
AGAV	102	6-01553	005223	1392 (20,20)
AGAV	101	6-014034	000032	13 (20)
AGAV	102	6-007363	000074	30 (20)
AGAV	101	6-014274	000032	13 (20)
AGAV	102	6-00003	000074	30 (20)
AGAV	101	6-01571	000170	60 (20)
AGAV	101	6-01571	000030	256 (20,20)
AGAV	101	6-02456	000100	52 (20,2)
AGAV	101	6-000170	000074	30 (20)
AGAV	101	6-013210	000170	60 (20)
AGAV	102	6-01613	005510	676 (20,20)
AGAV	102	6-020642	005510	676 (20,20)
AGAV	102	6-005770	005220	1392 (20,20)
AGAV	101	6-014210	000032	13 (20)
AGAV	102	6-000054	000074	30 (20)
AGAV	101	6-014242	000032	13 (20)
AGAV	102	6-000074	000074	30 (20)
AGAV	104	6-013766	000170	60 (20)
AGAV	101	6-027706	000100	256 (20,20)
AGAV	101	6-024466	000100	32 (20,2)
AGAV	101	6-000264	000074	30 (20)
AGAV	101	6-013400	000170	60 (20)
AGAV	104	6-024476	000010	4 (20)
AGAV	101	6-014375	000032	209 (415)

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CLONE	101	0-000010	000042	209	(418)
CLONE	102	0-000010	000010	4	(27)
CLONE	103	0-000010	000032	13	(26)
CLONE	104	0-000010	000034	1533	(13807)
CLONE	105	0-000010	000021	104	(279)
CLONE	106	0-000010	000037	255	(20033)
CLONE	107	0-000010	000036	1001	(200)
CLONE	108	0-000010	000031	114	(209)

LABELS

LABEL	ADDRESS	LABEL	ADDRESS	LABEL	ADDRESS	LABEL	ADDRESS
1	1-000000	2	00	3	00	6	000000
100	0-000000						

1-000000

FUNCTIONS - SUBROUTINES REFERENCED

CLONE LABEL

TOTAL SPOT ALLOCATE 1-000000 0015

1-000000 0015 0015 0015

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### 3.2.3 SOFTWARE COMPONENT 3 (LABLOD)

LABLOD (LABEL LOAD) calls CDRED to get all analyst labels, puts them in an (11,19) array, passes them to STORX for storage and writes a line of the report.



#### 3.2.3.1 Linkages

Subroutine LABLOD is called by SWLOD each time a spring wheat file is found on the CCIT. It calls CDRED and STORX.

#### 3.2.3.2 Interfaces

Interfaces with SWLOD and CDRED are the calling sequence and labeled commons /CBIAS/, /DUMMY/, /CLCOM/.

Interface with STORX is through the calling sequence and the labeled common /ANCIL/.

#### 3.2.3.3 Inputs

All inputs are through the calling subroutines.

#### 3.2.3.4 Output

The analyst labels are passed to 'STORX' under the code name 'SWDAFI' (For Spring Wheat Data File) with the fixed date 78,000. The fixed date means only the most recent labels are accessible.

For each batch of labels loaded, one line of printer output is generated.

82710C

ANALYST LABEL UNLOAD REPORT 'SUDAFI' 78100  
SEGMENT 1000 L'PARED  
SEGMENT 1000 L'PARED  
SEGMENT 1000 L'PARED

Figure 3 OUTPUT FROM LABLOD

192 001 1 -AF-000

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#### 3.2.3.5 Storage

Total space allocated = 6873

#### 3.2.3.6 Description

LABLOD first sets the storage date to 78,000. It then loads and reads analyst dot labels into an array which is (11,19). This is not the natural dot order. Having loaded all the dot labels, they are passed to STORX for storage under the code 'SWDAFI' at date 78,000. Then control is passed back to SWLOD.

#### 3.2.3.7 Flowchart

Not applicable.

#### 3.2.3.8 Listing

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3.2.3.8 5 3078 8/03/82 161816 00/507 161816 00/507 161816

1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 1039 1040 1041 1042 1043 1044 1045 1046 1047 1048 1049 1050 1051 1052 1053 1054 1055 1056 1057 1058 1059 1060 1061 1062 1063 1064 1065 1066 1067 1068 1069 1070 1071 1072 1073 1074 1075 1076 1077 1078 1079 1080 1081 1082 1083 1084 1085 1086 1087 1088 1089 1090 1091 1092 1093 1094 1095 1096 1097 1098 1099 1100 1101 1102 1103 1104 1105 1106 1107 1108 1109 1110 1111 1112 1113 1114 1115 1116 1117 1118 1119 1120 1121 1122 1123 1124 1125 1126 1127 1128 1129 1130 1131 1132 1133 1134 1135 1136 1137 1138 1139 1140 1141 1142 1143 1144 1145 1146 1147 1148 1149 1150 1151 1152 1153 1154 1155 1156 1157 1158 1159 1160 1161 1162 1163 1164 1165 1166 1167 1168 1169 1170 1171 1172 1173 1174 1175 1176 1177 1178 1179 1180 1181 1182 1183 1184 1185 1186 1187 1188 1189 1190 1191 1192 1193 1194 1195 1196 1197 1198 1199 1200 1201 1202 1203 1204 1205 1206 1207 1208 1209 1210 1211 1212 1213 1214 1215 1216 1217 1218 1219 1220 1221 1222 1223 1224 1225 1226 1227 1228 1229 1230 1231 1232 1233 1234 1235 1236 1237 1238 1239 1240 1241 1242 1243 1244 1245 1246 1247 1248 1249 1250 1251 1252 1253 1254 1255 1256 1257 1258 1259 1260 1261 1262 1263 1264 1265 1266 1267 1268 1269 1270 1271 1272 1273 1274 1275 1276 1277 1278 1279 1280 1281 1282 1283 1284 1285 1286 1287 1288 1289 1290 1291 1292 1293 1294 1295 1296 1297 1298 1299 1300 1301 1302 1303 1304 1305 1306 1307 1308 1309 1310 1311 1312 1313 1314 1315 1316 1317 1318 1319 1320 1321 1322 1323 1324 1325 1326 1327 1328 1329 1330 1331 1332 1333 1334 1335 1336 1337 1338 1339 1340 1341 1342 1343 1344 1345 1346 1347 1348 1349 1350 1351 1352 1353 1354 1355 1356 1357 1358 1359 1360 1361 1362 1363 1364 1365 1366 1367 1368 1369 1370 1371 1372 1373 1374 1375 1376 1377 1378 1379 1380 1381 1382 1383 1384 1385 1386 1387 1388 1389 1390 1391 1392 1393 1394 1395 1396 1397 1398 1399 1400 1401 1402 1403 1404 1405 1406 1407 1408 1409 1410 1411 1412 1413 1414 1415 1416 1417 1418 1419 1420 1421 1422 1423 1424 1425 1426 1427 1428 1429 1430 1431 1432 1433 1434 1435 1436 1437 1438 1439 1440 1441 1442 1443 1444 1445 1446 1447 1448 1449 1450 1451 1452 1453 1454 1455 1456 1457 1458 1459 1460 1461 1462 1463 1464 1465 1466 1467 1468 1469 1470 1471 1472 1473 1474 1475 1476 1477 1478 1479 1480 1481 1482 1483 1484 1485 1486 1487 1488 1489 1490 1491 1492 1493 1494 1495 1496 1497 1498 1499 1500 1501 1502 1503 1504 1505 1506 1507 1508 1509 1510 1511 1512 1513 1514 1515 1516 1517 1518 1519 1520 1521 1522 1523 1524 1525 1526 1527 1528 1529 1530 1531 1532 1533 1534 1535 1536 1537 1538 1539 1540 1541 1542 1543 1544 1545 1546 1547 1548 1549 1550 1551 1552 1553 1554 1555 1556 1557 1558 1559 1560 1561 1562 1563 1564 1565 1566 1567 1568 1569 1570 1571 1572 1573 1574 1575 1576 1577 1578 1579 1580 1581 1582 1583 1584 1585 1586 1587 1588 1589 1590 1591 1592 1593 1594 1595 1596 1597 1598 1599 1600 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1801 1802 1803 1804 1805 1806 1807 1808 1809 1810 1811 1812 1813 1814 1815 1816 1817 1818 1819 1820 1821 1822 1823 1824 1825 1826 1827 1828 1829 1830 1831 1832 1833 1834 1835 1836 1837 1838 1839 1840 1841 1842 1843 1844 1845 1846 1847 1848 1849 1850 1851 1852 1853 1854 1855 1856 1857 1858 1859 1860 1861 1862 1863 1864 1865 1866 1867 1868 1869 1870 1871 1872 1873 1874 1875 1876 1877 1878 1879 1880 1881 1882 1883 1884 1885 1886 1887 1888 1889 1890 1891 1892 1893 1894 1895 1896 1897 1898 1899 1900 1901 1902 1903 1904 1905 1906 1907 1908 1909 1910 1911 1912 1913 1914 1915 1916 1917 1918 1919 1920 1921 1922 1923 1924 1925 1926 1927 1928 1929 1930 1931 1932 1933 1934 1935 1936 1937 1938 1939 1940 1941 1942 1943 1944 1945 1946 1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959 1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036 2037 2038 2039 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062 2063 2064 2065 2066 2067 2068 2069 2070 2071 2072 2073 2074 2075 2076 2077 2078 2079 2080 2081 2082 2083 2084 2085 2086 2087 2088 2089 2090 2091 2092 2093 2094 2095 2096 2097 2098 2099 2100 2101 2102 2103 2104 2105 2106 2107 2108 2109 2110 2111 2112 2113 2114 2115 2116 2117 2118 2119 2120 2121 2122 2123 2124 2125 2126 2127 2128 2129 2130 2131 2132 2133 2134 2135 2136 2137 2138 2139 2140 2141 2142 2143 2144 2145 2146 2147 2148 2149 2150 2151 2152 2153 2154 2155 2156 2157 2158 2159 2160 2161 2162 2163 2164 2165 2166 2167 2168 2169 2170 2171 2172 2173 2174 2175 2176 2177 2178 2179 2180 2181 2182 2183 2184 2185 2186 2187 2188 2189 2190 2191 2192 2193 2194 2195 2196 2197 2198 2199 2200 2201 2202 2203 2204 2205 2206 2207 2208 2209 2210 2211 2212 2213 2214 2215 2216 2217 2218 2219 2220 2221 2222 2223 2224 2225 2226 2227 2228 2229 2230 2231 2232 2233 2234 2235 2236 2237 2238 2239 2240 2241 2242 2243 2244 2245 2246 2247 2248 2249 2250 2251 2252 2253 2254 2255 2256 2257 2258 2259 2260 2261 2262 2263 2264 2265 2266 2267 2268 2269 2270 2271 2272 2273 2274 2275 2276 2277 2278 2279 2280 2281 2282 2283 2284 2285 2286 2287 2288 2289 2290 2291 2292 2293 2294 2295 2296 2297 2298 2299 2300 2301 2302 2303 2304 2305 2306 2307 2308 2309 2310 2311 2312 2313 2314 2315 2316 2317 2318 2319 2320 2321 2322 2323 2324 2325 2326 2327 2328 2329 2330 2331 2332 2333 2334 2335 2336 2337 2338 2339 2340 2341 2342 2343 2344 2345 2346 2347 2348 2349 2350 2351 2352 2353 2354 2355 2356 2357 2358 2359 2360 2361 2362 2363 2364 2365 2366 2367 2368 2369 2370 2371 2372 2373 2374 2375 2376 2377 2378 2379 2380 2381 2382 2383 2384 2385 2386 2387 2388 2389 2390 2391 2392 2393 2394 2395 2396 2397 2398 2399 2400 2401 2402 2403 2404 2405 2406 2407 2408 2409 2410 2411 2412 2413 2414 2415 2416 2417 2418 2419 2420 2421 2422 2423 2424 2425 2426 2427 2428 2429 2430 2431 2432 2433 2434 2435 2436 2437 2438 2439 2440 2441 2442 2443 2444 2445 2446 2447 2448 2449 2450 2451 2452 2453 2454 2455 2456 2457 2458 2459 2460 2461 2462 2463 2464 2465 2466 2467 2468 2469 2470 2471 2472 2473 2474 2475 2476 2477 2478 2479 2480 2481 2482 2483 2484 2485 2486 2487 2488 2489 2490 2491 2492 2493 2494 2495 2496 2497 2498 2499 2500 2501 2502 2503 2504 2505 2506 2507 2508 2509 2510 2511 2512 2513 2514 2515 2516 2517 2518 2519 2520 2521 2522 2523 2524 2525 2526 2527 2528 2529 2530 2531 2532 2533 2534 2535 2536 2537 2538 2539 2540 2541 2542 2543 2544 2545 2546 2547 2548 2549 2550 2551 2552 2553 2554 2555 2556 2557 2558 2559 2560 2561 2562 2563 2564 2565 2566 2567 2568 2569 2570 2571 2572 2573 2574 2575 2576 2577 2578 2579 2580 2581 2582 2583 2584 2585 2586 2587 2588 2589 2590 2591 2592 2593 2594 2595 2596 2597 2598 2599 2600 2601 2602 2603 2604 2605 2606 2607 2608 2609 2610 2611 2612 2613 2614 2615 2616 2617 2618 2619 2620 2621 2622 2623 2624 2625 2626 2627 2628 2629 2630 2631 2632 2633 2634 2635 2636 2637 2638 2639 2640 2641 2642 2643 2644 2645 2646 2647 2648 2649 2650 2651 2652 2653 2654 2655 2656 2657 2658 2659 2660 2661 2662 2663 2664 2665 2666 2667 2668 2669 2670 2671 2672 2673 2674 2675 2676 2677 2678 2679 2680 2681 2682 2683 2684 2685 2686 2687 2688 2689 2690 2691 2692 2693 2694 2695 2696 2697 2698 2699 2700 2701 2702 2703 2704 2705 2706 2707 2708 2709 2710 2711 2712 2713 2714 2715 2716 2717 2718 2719 2720 2721 2722 2723 2724 2725 2726 2727 2728 2729 2730 2731 2732 2733 2734 2735 2736 2737 2738 2739 2740 2741 2742 2743 2744 2745 2746 2747 2748 2749 2750 2751 2752 2753 2754 2755 2756 2757 2758 2759 2760 2761 2762 2763 2764 2765 2766 2767 2768 2769 2770 2771 2772 2773 2774 2775 2776 2777 2778 2779 2780 2781 2782 2783 2784 2785 2786 2787 2788 2789 2790 2791 2792 2793 2794 2795 2796 2797 2798 2799 2800 2801 2802 2803 2804 2805 2806 2807 2808 2809 2810 2811 2812 2813 2814 2815 2816 2817 2818 2819 2820 2821 2822 2823 2824 2825 2826 2827 2828 2829 2830 2831 2832 2833 2834 2835 2836 2837 2838 2839 2840 2841 2842 2843 2844 2845 2846 2847 2848 2849 2850 2851 2852 2853 2854 2855 2856 2857 2858 2859 2860 2861 2862 2863 2864 2865 2866 2867 2868 2869 2870 2871 2872 2873 2874 2875 2876 2877 2878 2879 2880 2881 2882 2883 2884 2885 2886 2887 2888 2889 2890 2891 2892 2893 2894 2895 2896 2897 2898 2899 2900 2901 2902 2903 2904 2905 2906 2907 2908 2909 2910 2911 2912 2913 2914 2915 2916 2917 2918 2919 2920 2921 2922 2923 2924 2925 2926 2927 2928 2929 2930 2931 2932 2933 2934 2935 2936 2937 2938 2939 2940 2941 2942 2943 2944 2945 2946 2947 2948 2949 2950 2951 2952 2953 2954 2955 2956 2957 2958 2959 2960 2961 2962 2963 2964 2965 2966 2967 2968 2969 2970 2971 2972 2973 2974 2975 2976 2977 2978 2979 2980 2981 2982 2983 2984 2985 2986 2987 2988 2989 2990 2991 2992 2993 2994 2995 2996 2997 2998 2999 3000 3001 3002 3003 3004 3005 3006 3007 3008 3009 3010 3011 3012 3013 3014 3015 3016 3017 3018 3019 3020 3021 3022 3023 3024 3025 3026 3027 3028 3029 3030 3031 3032 3033 3034 3035 3036 3037 3038 3039 3040 3041 3042 3043 3044 3045 3046 3047 3048 3049 3050 3051 3052 3053 3054 3055 3056 3057 3058 3059 3060 3061 3062 3063 3064 3065 3066 3067 3068 3069 3070 3071 3072 3073 3074 3075 3076 3077 3078 3079 3080 3081 3082 3083 3084 3085 3086 3087 3088 3089 3090 3091 3092 3093 3094 3095 3096 3097 3098 3099 3100 3101 3102 3103 3104 3105 3106 3107 3108 3109 3110 3111 3112 3113 3114 3115 3116 3117 3118 3119 3120 3121 3122 3123 3124 3125 3126 3127 3128 3129 3130 3131 3132 3133 3134 3135 3136 3137 3138 3139 3140 3141 3142 3143 3144 3145 3146 3147 3148 3149 3150 3151 3152 3153 3154 3155 3156 3157 3158 3159 3160 3161 3162 3163 3164 3165 3166 3167 3168 3169 3170 3171 3172 3173 3174 3175 3176 3177 3178 3179 3180 3181 3182 3183 3184 3185 3186 3187 3188 3189 3190 3191 3192 3193 3194 3195 3196 3197 3198 3199 3200 3201 3202 3203 3204 3205 3206 3207 3208 3209 3210 3211 3212 3213 3214 3215 3216 3217 3218 3219 3220 3221 3222 3223 3224 3225 3226 3227 3228 3229 3230 3231 3232 3233 3234 3235 3236 3237 3238 3239 3240 3241 3242 3243 3244 3245 3246 3247 3248 3249 3250 3251 3252 3253 3254 3255 3256 3257 3258 3259 3260 3261 3262 3263 3264 3265 3266 3267 3268 3269 3270 3271 3272 3273 3274 3275 3276 3277 3278 3279 3280 3281 3282 3283 3284 3285 3286 3287 3288 3289 3290 3291 3292 3293 3294 3295 3296 3297 3298 3299 3300 3301 3302 3303 3304 3305 3306 3307 3308 3309 3310 3311 3312 3313 3314 3315 3316 3317 3318 3319 3320 3321 3322 3323 3324 3325 3326 3327 3328 3329 3330 3331 3332 3333 3334 3335 3336 3337 3338 3339 3340 3341 3342 3343 3344 3345 3346 3347 3348 3349 3350 3351 3352 3353 3354 3355 3356 3357 3358 3359 3360 3361 3362 3363 3364 3365 3366 3367 3368 3369 3370 3371 3372 3373 3374 3375 3376 3377 3378 3379 3380 3381 3382 3383 3384 3385 3386 3387 3388 3389 3390 3391 3392 3393 3394 3395 3396 3397 3398 3399 3400 3401 3402 3403 3404 3405 3406 3407 3408 3409 3410 3411 3412 3413 3414 3415 3416 3417 3418 3419 3420 3421 3422 3423 3424 3425 3426 3427 3428 3429 3430 3431 3432 3433 3434 3435 3436 3437 3438 3439 3440 3441 3442 3443 3444 3445

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FLYWAY PLAYS  
SUNSHINE  
ATP:010045/49

CHARACTERISTICS

NAME	TYPE	ADDRESS	SIZE	ATTRIBUTES
1	0001	00130	249	001000A.LCL
2	0001	00030	15	001000A.LCL
3	0001	00030	15	001000A.LCL
4	0001	00130	477	001000A.LCL
5	0001	00130	5073	001000A.LCL
6	0001	00130	2	001000A.LCL
7	0001	00130	249	001000A.LCL
8	0001	00130	20	001000A.LCL

FLYWAY PLAYS

NAME	TYPE	ADDRESS	NAME	TYPE	ADDRESS	NAME	TYPE	ADDRESS
1	0001	00130						

VARIABLES

NAME	TYPE	ADDRESS	NAME	TYPE	ADDRESS	NAME	TYPE	ADDRESS
1	0001	00130	00130	102	00130	00130	102	00130
2	0001	00130	00130	102	00130	00130	102	00130
3	0001	00130	00130	102	00130	00130	102	00130
4	0001	00130	00130	102	00130	00130	102	00130
5	0001	00130	00130	102	00130	00130	102	00130
6	0001	00130	00130	102	00130	00130	102	00130
7	0001	00130	00130	102	00130	00130	102	00130
8	0001	00130	00130	102	00130	00130	102	00130

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APAYS

NAME	TYPE	ADDRESS	SIZE	DIMENSIONS
1	004	6-01415	70030	12 (3,2)
2	004	6-01415	70030	12 (3,2)
3	004	6-01415	70030	12 (3,2)
4	004	6-01415	70030	12 (3,2)
5	004	6-01415	70030	12 (3,2)
6	004	6-01415	70030	12 (3,2)
7	004	6-01415	70030	12 (3,2)
8	004	6-01415	70030	12 (3,2)
9	004	6-01415	70030	12 (3,2)
10	004	6-01415	70030	12 (3,2)
11	004	6-01415	70030	12 (3,2)
12	004	6-01415	70030	12 (3,2)
13	004	6-01415	70030	12 (3,2)
14	004	6-01415	70030	12 (3,2)
15	004	6-01415	70030	12 (3,2)
16	004	6-01415	70030	12 (3,2)
17	004	6-01415	70030	12 (3,2)
18	004	6-01415	70030	12 (3,2)
19	004	6-01415	70030	12 (3,2)
20	004	6-01415	70030	12 (3,2)

000000	102	6-000074	000074	36	(30)
000000	103	6-000074	000074	37	(30)
000000	104	6-000074	000074	256	(2,6,6)
000000	105	6-000074	000074	32	(2,6,6)
000000	106	6-000074	000074	30	(3)
000000	107	6-000074	000074	67	(3)
000000	108	6-000074	000074	4	(2)
000000	109	6-000074	000074	4	(2)
000000	110	6-000074	000074	209	(4,16)
000000	111	6-000074	000074	4	(2)
000000	112	6-000074	000074	2	(2)
000000	113	6-000074	000074	36	(36)
000000	114	6-000074	000074	13	(26)
000000	115	6-000074	000074	153	(30,6)
000000	116	6-000074	000074	104	(20,5)
000000	117	6-000074	000074	209	(11,15)
000000	118	6-000074	000074	275	(2,6,6)
000000	119	6-000074	000074	32	(2,6)
000000	120	6-000074	000074	104	(2,6)

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LABEL	ADDRESS	LAUFL	ADDRESS	LABEL	ADDRESS	LABEL	ADDRESS	LABEL	ADDRESS
1	1-000142	2	1-000120	3	1-000442	4	00	13	1-000266
229	00	237	00	00	3-000018	07	3-000026	08	3-000024
109	3-000000	6765	3-000066						

FUNCTIONS AND SUBROUTINES REFERENCED

CHORD

TOTAL SPACE ALLOCATED = 132760 6504

12 FOR INSTRUCTIONS GENERATED

SOLDD,LP:10000



#### 3.2.4 SOFTWARE COMPONENT 4 (STORX)

STORX is identical to the program STORE except that the Spring Wheat Data File [200,7] DATDATA.ACA is accessed rather than a local file.

### 3.2.5 SOFTWARE COMPONENT 5 (CAMPLT)

CAMPLT runs in batch mode from a deck supplied by FLOCON when requested by a CAMS analyst. It accesses the spring wheat data file and creates spectral plot output which is given to the analyst.

#### 3.2.5.1 Linkages

CAMPLT runs in batch mode. It calls FETCX and *SWPLT*

#### 3.2.5.2 Interfaces

CAMPLT interfaces with FETCX through the calling sequence and through the labeled common /ANCIL/.

CAMPLT interfaces with SWPLT through the calling sequence and through the labeled commons /GRAPH/ and /PLOT/.

#### 3.2.5.3 Inputs

CAMPLT reads the FLOCON supplied analyst deck (fig)4.

CAMPLT reads the data file [200,7] SOIL.DAT to get the estimated soil greenness value.

CAMPLT obtains spectral values for the dots from the spring wheat data file through FETCX.

#### 3.2.5.4 Outputs

Output from CAMPLT is as follows:

1. Listing of the dots in natural order with labels, dot identification, and green number, brightness coordinates.
2. Listing of the dots in green number order with labels, dot identification, and green number, brightness coordinates.

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**Change 1  
March 8, 1979**

### Figure 4

3. Plot of the dots in Brightness, Green number, plotting character is analyst label, or number of hits.
4. Density plot, more hits plot darker, in Brightness, Green number.
5. Listing of the 209 plotting labels in a 19 by 11 grid.
6. Identical to 1)-4) except Brightness, Green Number are replaced by OLPARS derived coordinates.

#### 3.2.5.5 Storage

Total space allocated = 9953.

#### 3.2.5.6 Description

CAMPLT first reads the batch input deck. From the first GRAPH card read it obtains the segment number, acquisition date, satellite identification, and a flag to user or not use previous analyst labels. From each DOT card it gets a valid plotting symbol and optionally, a listing of dots to plot with this symbol. A second GRAPH card, a STOP card, or an end of data initiates processing. A second GRAPH card sets a flag which continues processing after the first segment is processed.

In further processing, the first step is to read soil cards until a match for segment and date is found. If no match is found, the last one is used and a message typed.

Then, if previous analyst labels are to be used, they are retrieved by FETCX. These labels are used to label any dot not previously labeled by a DOT card.

Next the spectral values are retrieved from the Spring Wheat Data File by FETCX, (calibrated if satellite is Landsat 3,) and transformed to the plotting values. Unfortunately, space limitation required the destruction of these spectral values through an equivalence statement.

Change 1  
March 8, 1979

With all the data in the machine, the next step prints the data in natural order. Then the data is put in green number order and printed.

Now the plotting starts. First the correct plotting character for each dot is defined. For the first plot only characters from Dot cards are plotted. 'N' is plotted as '.', multiple hits are plotted as numbers. For the second plot, the same dots are plotted with different characters. After these plotting characters are defined, SWPLT is called to do the actual plotting.

Then the labels are printed in grid position, OLPARS weightings are initialized and the OLPARS loop is started.

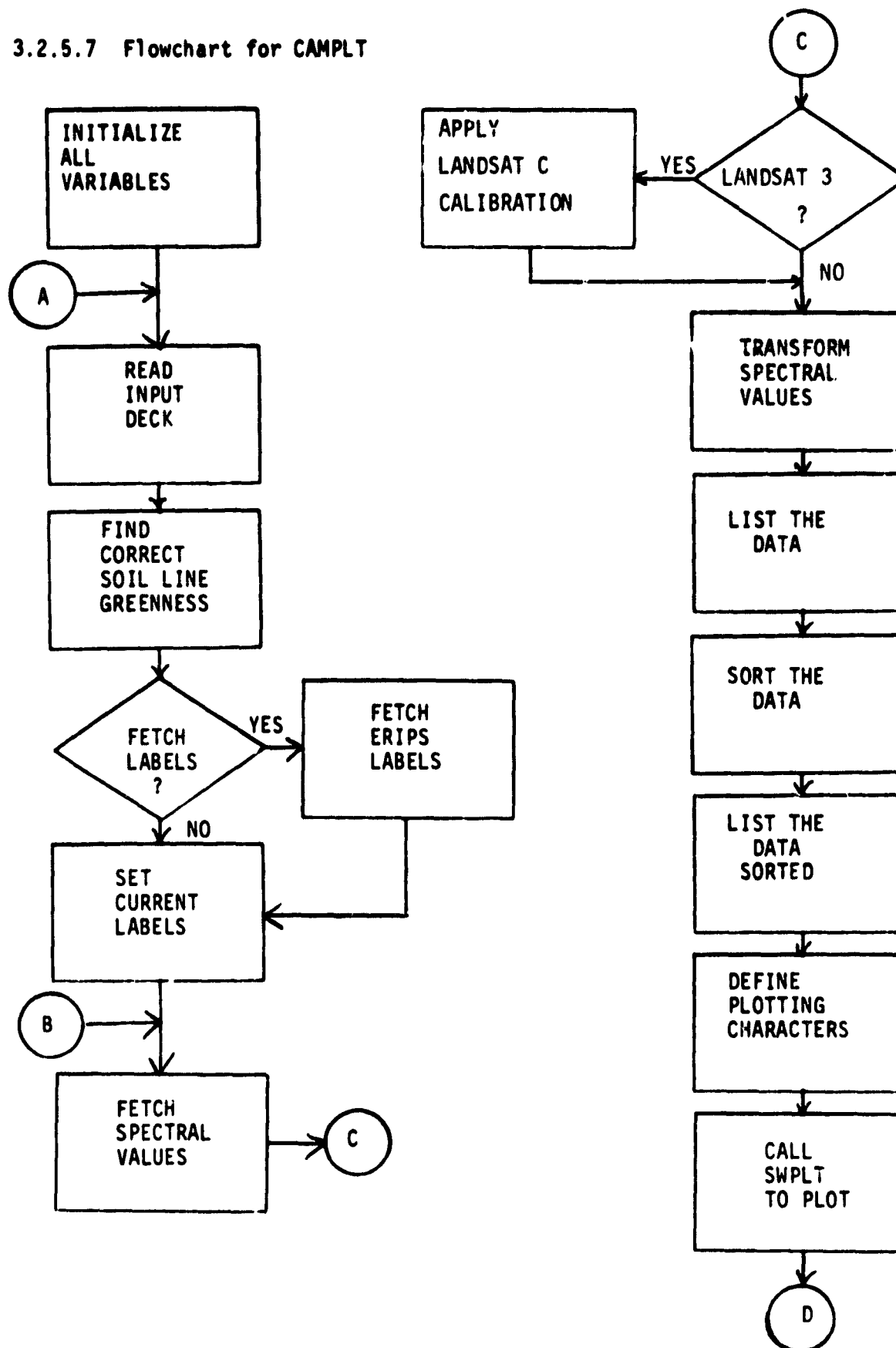
In case a second segment card initiated processing, after the OLPARS plot is made, the program loops to the beginning. Otherwise it stops.

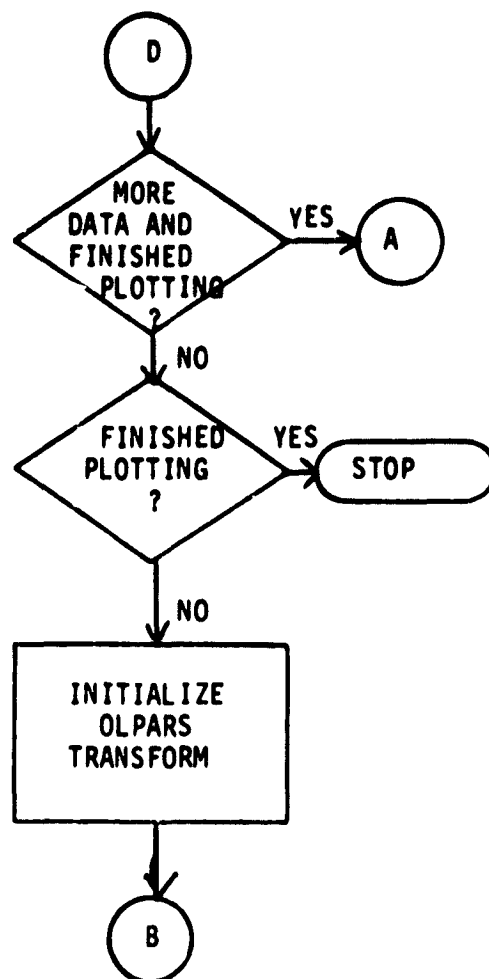
#### 3.2.5.7 Flowchart

The Flow chart follows.

#### 3.2.5.8 Listing

### 3.2.5.7 Flowchart for CAMPLT





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24

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11/11/50

100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200

100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200



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166	9	12	C	24	62
165	9	13	C	26	64
164	9	14	>	25	54
163	9	15	>	29	64
162	9	16	C	13	57
161	9	17	>	25	67
160	9	18	>	25	72
159	9	19	>	25	55
158	10	1	>	10	55
157	10	2	>	9	54
156	10	3	>	14	53
155	10	4	>	25	66
154	10	5	>	10	68
153	10	6	>	10	70
152	10	7	>	14	61
151	10	8	>	14	61
150	10	9	>	14	54
149	10	10	>	14	52
148	10	11	>	10	64
147	10	12	>	20	62
146	10	13	>	10	64
145	10	14	>	21	50
144	10	15	>	25	63
143	10	16	>	13	51
142	10	17	>	6	46
141	10	18	>	27	65
140	10	19	>	37	71
139	10	20	>	13	54
138	11	1	>	9	50
137	11	2	>	11	59
136	11	3	>	20	63
135	11	4	>	24	71
134	11	5	>	21	64
133	11	6	>	9	37
132	11	7	>	21	69
131	11	8	>	11	59
130	11	9	>	9	53
129	11	10	>	30	66
128	11	11	>	20	66
127	11	12	>	14	54
126	11	13	>	25	72
125	11	14	>	40	75
124	11	15	>	11	68
123	11	16	>	12	59
122	11	17	>	20	74
121	11	18	>	14	53
120	11	19	>	10	60
119	12	1	>	10	6

166	9	12	C	24	62
165	9	13	C	26	64
164	9	14	>	25	54
163	9	15	>	29	64
162	9	16	C	13	57
161	9	17	>	25	67
160	9	18	>	25	72
159	9	19	>	25	55
158	10	1	>	10	55
157	10	2	>	9	54
156	10	3	>	14	53
155	10	4	>	25	66
154	10	5	>	10	68
153	10	6	>	10	70
152	10	7	>	14	61
151	10	8	>	14	61
150	10	9	>	14	54
149	10	10	>	14	52
148	10	11	>	10	64
147	10	12	>	20	62
146	10	13	>	10	64
145	10	14	>	21	50
144	10	15	>	25	63
143	10	16	>	13	51
142	10	17	>	6	46
141	10	18	>	27	65
140	10	19	>	37	71
139	10	20	>	13	54
138	11	1	>	9	50
137	11	2	>	11	59
136	11	3	>	20	63
135	11	4	>	24	71
134	11	5	>	21	64
133	11	6	>	9	37
132	11	7	>	21	69
131	11	8	>	11	59
130	11	9	>	9	53
129	11	10	>	30	66
128	11	11	>	20	66
127	11	12	>	14	54
126	11	13	>	25	72
125	11	14	>	40	75
124	11	15	>	11	68
123	11	16	>	12	59
122	11	17	>	20	74
121	11	18	>	14	53
120	11	19	>	10	60
119	12	1	>	10	6





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ORIGINAL PL. TO STORE Y 211 78247 SPIL LINE 24

6F

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110 120  
P-1674855

7-257

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192

—

DAY	NO	LINE	PLY	LEN	Y	W
59	4	4	2	A	34	49
60	4	4	3	I	36	47
61	4	4	4	E	36	47
62	4	4	5	P	36	51
63	4	4	6	C	36	49
64	4	4	7	C	37	48
65	4	4	8	>	22	52
66	4	4	9	C	48	37
67	4	4	10	X	44	45
68	4	4	11	>	34	47
69	4	4	12	>	38	46
70	4	4	13	>	31	49
71	4	4	14	>	35	49
72	4	4	15	>	26	50
73	4	4	16	>	36	48
74	4	4	17	S	23	54
75	4	4	18	>	28	51
76	4	4	19	>	38	50
77	5	5	1	A	25	53
78	5	5	2	>	27	48
79	5	5	3	>	34	44
80	5	5	4	>	33	49
81	5	5	5	>	28	51
82	5	5	6	W	28	51
83	5	5	7	C	28	51
84	5	5	8	F	32	49
85	5	5	9	>	48	38
86	5	5	10	X	42	41
87	5	5	11	>	48	45
88	5	5	12	>	42	48
89	5	5	13	>	31	52
90	5	5	14	C	26	52
91	5	5	15	P	26	49
92	5	5	16	S	26	47
93	5	5	17	>	37	43
94	5	5	18	>	21	53
95	6	6	1	P	31	50
96	6	6	2	P	38	53
97	6	6	3	P	34	47
98	6	6	4	P	37	44
99	6	6	5	>	22	51
100	6	6	6	>	35	46
101	6	6	7	>	35	46
102	6	6	8	>	21	53
103	6	6	9	A	22	53
104	6	6	10	>	38	44
105	6	6	11	B	37	44
106	6	6	12	>	25	47
107	6	6	13	>	45	43
108	6	6	14	P	28	50
109	6	6	15	A	28	47
110	6	6	16	C	37	46
111	6	6	17	>	21	54
112	6	6	18	V	37	45
113	6	6	19	>	31	47
114	7	7	1	I	46	36
115	7	7	2	I	32	49

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----

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144	9	12	C	33	42
145	9	13	C	20	51
146	9	14	>	33	49
147	9	15	P	32	50
148	9	16	C	33	48
149	9	17	>	25	50
150	9	18	P	31	51
151	9	19	>	27	45
152	18	1	>	33	47
153	10	2	P	39	44
154	10	3	P	27	51
155	10	4	P	24	55
156	10	5	>	7	63
157	10	6	V	29	50
158	10	7	>	30	51
159	10	8	C	39	43
160	10	9	>	26	51
161	10	10	P	26	50
162	10	11	P	31	51
163	10	12	>	28	53
164	10	13	>	35	46
165	10	14	>	31	49
166	10	15	C	40	44
167	10	16	P	45	44
168	10	17	P	29	50
169	10	18	P	27	52
170	10	19	P	30	44
171	11	1	>	23	49
172	11	2	B	29	49
173	11	3	P	33	53
174	11	4	C	26	53
175	11	5	>	26	52
176	11	6	E	32	49
177	11	7	K	22	54
178	11	8	>	31	47
179	11	9	>	37	47
180	11	10	C	31	52
181	11	11	P	22	54
182	11	12	>	30	48
183	11	13	>	27	56
184	11	14	>	22	50
185	11	15	A	29	50
186	11	16	P	48	39
187	11	17	>	24	55
188	11	18	C	39	49
189	11	19	>	32	49
190	12	1		0	

191	9	10	30	47
192	9	11	32	43
193	9	12	33	45
194	9	13	34	47
195	9	14	35	49
196	9	15	36	51
197	9	16	37	53
198	9	17	38	55
199	9	18	39	57
200	9	19	40	59
201	9	20	41	61
202	9	21	42	63
203	9	22	43	65
204	9	23	44	67
205	9	24	45	69
206	9	25	46	71
207	9	26	47	73
208	9	27	48	75
209	9	28	49	77
210	9	29	50	79

Y	X	TIME	PIX	LRL
28	53	133	17	19 >
29	57	12	8	19 >
29	46	146	4	19 >
29	47	110	2	19 >
29	48	37	2	19 >
29	49	30	0	19 >
29	49	155	0	19 >
29	49	156	0	19 >
29	49	159	9	19 >
29	49	192	11	19 >
29	50	177	10	19 >
29	50	188	10	19 >
29	50	205	11	19 >
29	51	91	5	19 >
29	51	83	5	19 >
30	46	56	3	19 >
30	49	34	2	19 >
30	49	35	2	19 >
30	49	50	3	19 >
30	50	6	4	19 >
30	50	76	4	19 >
30	51	14	1	19 >
30	51	178	10	19 >
30	52	42	3	19 >
30	53	138	0	19 >
31	46	154	0	19 >
31	47	114	0	19 >
31	48	23	2	19 >
31	48	28	2	19 >
31	48	137	0	19 >
31	49	11	1	19 >
31	49	19	1	19 >
31	49	70	4	19 >
31	49	117	7	19 >
31	49	157	0	19 >
31	49	185	10	19 >
31	50	96	0	19 >
31	50	198	11	19 >
31	51	40	3	19 >
31	51	123	7	19 >
31	51	182	10	19 >
31	52	00	5	19 >
31	52	200	11	19 >
31	52	19	1	19 >
32	46	19	4	19 >
32	49	84	5	19 >
32	49	116	7	19 >
32	49	120	7	19 >
32	49	196	11	19 >
32	49	289	11	19 >
32	50	120	7	19 >
32	50	140	9	19 >
32	50	143	9	19 >
32	50	167	9	19 >
32	51	130	7	19 >
33	47	57	3	19 >
33	47	122	7	19 >
33	47	172	10	19 >

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Y	X	TIME	PIX	LRL
28	53	133	17	19 >
29	57	12	8	19 >
29	46	146	4	19 >
29	47	110	2	19 >
29	48	37	2	19 >
29	49	30	0	19 >
29	49	155	0	19 >
29	49	156	0	19 >
29	49	159	9	19 >
29	49	192	11	19 >
29	50	177	10	19 >
29	50	188	10	19 >
29	50	205	11	19 >
29	51	91	5	19 >
29	51	83	5	19 >
30	46	56	3	19 >
30	49	34	2	19 >
30	49	35	2	19 >
30	49	50	3	19 >
30	50	6	4	19 >
30	50	76	4	19 >
30	51	14	1	19 >
30	51	178	10	19 >
30	52	42	3	19 >
30	53	138	0	19 >
31	46	154	0	19 >
31	47	114	0	19 >
31	48	23	2	19 >
31	48	28	2	19 >
31	48	137	0	19 >
31	49	11	1	19 >
31	49	19	1	19 >
31	49	70	4	19 >
31	49	117	7	19 >
31	49	157	0	19 >
31	49	185	10	19 >
31	50	96	0	19 >
31	50	198	11	19 >
31	51	40	3	19 >
31	51	123	7	19 >
31	51	182	10	19 >
31	52	00	5	19 >
31	52	200	11	19 >
31	52	19	1	19 >
32	46	19	4	19 >
32	49	84	5	19 >
32	49	116	7	19 >
32	49	120	7	19 >
32	49	196	11	19 >
32	49	289	11	19 >
32	50	120	7	19 >
32	50	140	9	19 >
32	50	143	9	19 >
32	50	167	9	19 >
32	51	130	7	19 >
33	47	57	3	19 >
33	47	122	7	19 >
33	47	172	10	19 >



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37	47	10	1	18	C
37	47	148	8	17	S
37	47	199	11	15	A
37	48	44	4	7	>
37	49	198	7	14	B
38	49	195	6	10	>
38	46	59	4	12	>
38	46	125	7	11	P
38	46	176	8	1	>
38	46	198	10	10	P
38	47	113	1	15	>
38	47	140	0	7	P
38	47	140	0	16	S
38	48	173	7	19	>
39	43	179	10	9	C
39	44	5	1	5	>
39	46	173	10	2	>
39	46	278	11	18	C
39	47	46	3	9	>
39	47	142	0	9	B
40	38	38	2	10	B
40	39	276	11	14	B
40	44	186	10	15	C
40	45	88	5	15	>
40	46	15	1	15	S
40	46	85	3	9	>
40	47	96	3	14	>
41	41	97	5	11	>
42	46	89	5	15	>
42	43	121	7	7	>
43	46	149	0	12	>
43	39	147	0	14	>
44	43	126	7	19	P
44	45	67	4	10	X
45	37	95	3	17	>
45	38	151	0	10	>
45	39	153	0	7	>
45	43	108	0	23	P
45	44	187	10	14	P
46	36	115	7	1	I
46	37	132	7	10	C
46	38	30	2	11	C
47	37	152	0	10	>
48	37	84	4	9	C
50	38	46	5	16	X
0	0	210	12	1	

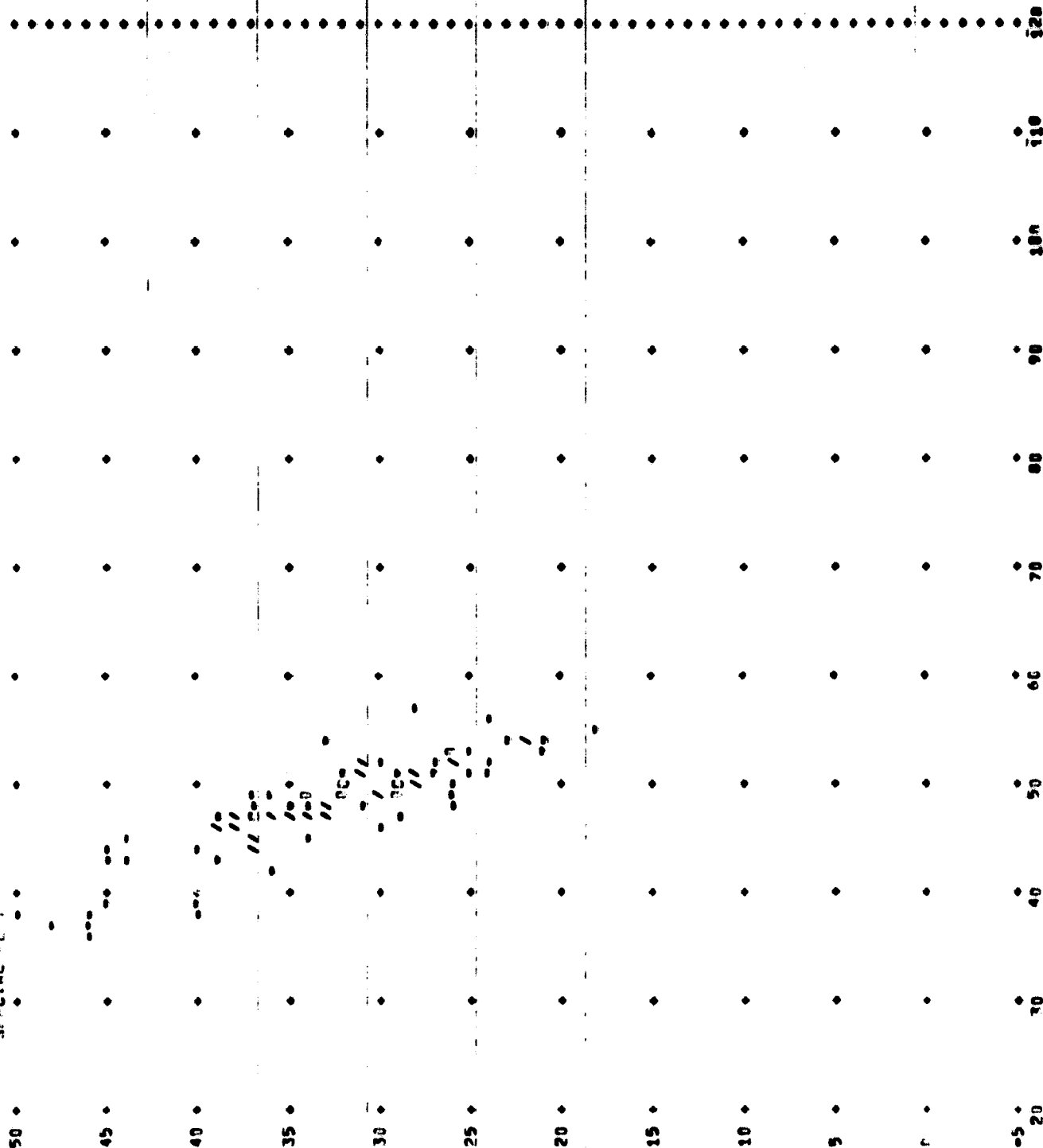
33	48	7	1	2	>
33	46	91	3	2	>
33	46	164	4	12	C
34	49	104	9	16	C
34	49	15	5	4	>
34	49	15	3	17	>
34	49	154	3	14	>
34	49	154	3	1	>
35	40	191	11	1	>
35	50	132	4	16	>
35	54	57	4	15	C
36	44	70	5	2	>
36	45	24	2	7	C
36	47	63	4	11	>
36	47	94	6	2	P
37	47	127	7	11	Y
37	48	4	1	1	B
37	49	4	1	2	B
37	49	45	3	7	P
37	49	43	3	11	>
37	49	52	3	14	X
37	49	56	3	13	A
37	49	143	7	10	C
38	46	14	1	16	>
38	46	144	2	7	>
38	46	102	0	7	>
38	46	161	0	5	P
38	46	161	0	5	P
38	47	134	13	12	>
38	47	44	3	6	C
38	47	119	7	2	C
38	48	135	3	2	C
38	49	72	4	14	>
38	49	141	0	6	S
39	42	141	0	6	S
39	44	124	2	6	>
39	47	7	1	1	>
39	47	60	4	2	I
39	47	61	4	4	A
39	48	53	4	1	A
39	48	73	4	16	>
39	48	202	11	12	>
39	49	63	4	6	C
39	49	94	4	16	>
39	49	90	5	4	P
39	49	106	6	11	A
39	49	7	1	7	C
39	45	113	4	16	Y
39	45	171	9	16	>
39	46	111	6	16	>



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SPECIAL PLAT--SEGMENT 211 76247 SAIL LINE 26

SPECIAL PLAT







```

0006 2021 FORMAT(7111)
0007 0 =PIE(0.022) A18,1N
0008 622 FOR=AT( '00.24,7111)
0009 1200
0010 L(1,10)2AL
0011 1200
0012 IF(EN .GT. 0)1200
0013 DO 4001 121,71
0014 IF(121(1) .NE. ' ') 121001(1,1)
0015 IF(121(1) .EQ. ' ') .AND. 14 .NE. 0) D10(1,1)2AL
0016 4001 IF(121(1) .EQ. ' ') 12100
0017 50 10 1
0018 4005 FORMAT( 'DECE PROPLEM' C1N (AND SFC 0.15, ' SEC (AND SEC 0.15)
0019 45A CONTINUE
0020 OPER=UNIT2=MAP(1200,7101L,0AT',TYPE='OLD',
0021 C ACCESS=SEQUENTIAL)
0022 000 CONTINUE
0023 C SOIL LINE INPUT FROM INPUT CARD STARTS 'MIN'
0024 THIS DATA IS LOGICALLY UPDATED WITH CARDS FROM LARS
0025 THE CARDS ARE GENERATED BY O.A.2. USING BIN CARDS
0026 FROM DATA PROCESSED BY PROGRAMS ON JSC008
0027 READ(2,4001,ERR=0,END=0) 514,11N
0028 0 =DIVE(0.001) C1N,11N
0029 4001 FORMAT(4,0,14,12,013)
0030 IF(C1N .NE. 1)515)60 TO 400
0031 IF(11(1) .NE. SEC) 60 TO 400
0032 IF(11(5) .NE. DTE(1)) 60 TO 400
0033 IF(11(6) .NE. DTE(2)) 60 TO 400
0034 4002 FORMAT( 'GOOD UNF')
0035 4005 CONTINUE
0036 0000 REWIND 2
0037 000001
0038 000002
0039 000003
0040 000004
0041 000005
0042 000006
0043 000007
0044 000008
0045 000009
0046 000010
0047 000011
0048 000012
0049 000013
0050 000014
0051 000015
0052 000016
0053 000017
0054 000018
0055 000019
0056 000020
0057 000021
0058 000022
0059 000023
0060 000024
0061 000025
0062 000026
0063 000027
0064 000028
0065 000029
0066 000030
0067 000031
0068 000032
0069 000033
0070 000034
0071 000035
0072 000036
0073 000037
0074 000038
0075 000039
0076 000040
0077 000041
0078 000042
0079 000043
0080 000044
0081 000045
0082 000046
0083 000047
0084 000048
0085 000049
0086 000050
0087 000051
0088 000052
0089 000053
0090 000054
0091 000055
0092 000056
0093 000057
0094 000058
0095 000059
0096 000060
0097 000061
0098 000062
0099 000063
0100 000064
0101 000065
0102 000066
0103 000067
0104 000068
0105 000069
0106 000070
0107 000071
0108 000072
0109 000073
0110 000074
0111 000075
0112 000076
0113 000077
0114 000078
0115 000079
0116 000080
0117 000081
0118 000082
0119 000083
0120 000084
0121 000085
0122 000086
0123 000087
0124 000088
0125 000089
0126 000090
0127 000091
0128 000092
0129 000093
0130 000094
0131 000095

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0177 J1=1-(L1-1)*10
0178 J2=12-(L2-1)*10
0179 WRITE(6,1000) I1,L1,J1,CLBL(11),DLBL(11),IPV(11),IPX(11),
      12,L2,J2,CLBL(12),DLBL(12),IPV(12),IPX(12)
      C
0180 074 CONTINUE
0181 WRITE(6,1000)
0182 1000 FORMAT(11)
0183 DO 075 I=1,17,163
0184 I=13*07
0185 I=13*(I-1)/16+1
0186 I=13*(I-1)/16+1
0187 J=13*(I-1)/16+1
0188 J=13*(I-1)/16+1
0189 WRITE(6,1000) I3,L3,J3,CLBL(13),DLBL(13),IPV(13),IPX(13),
      14,L4,J4,CLBL(14),DLBL(14),IPV(14),IPX(14)
      C
0190 075 CONTINUE
0191 1003 FORMAT(13,16,16,24,16,16,16,16,16,16,24,24,16,16,16)
0192 200 CONTINUE
0193 WRITE(6,1204) SFC,IO,DTG(4)
0194 FORMAT(11) SEGMENT,10,' DATE,17,' SOIL LINE,16,17)
0195 1204 FORMAT(15,'GREEN NO. 07 DTG LINE PIX LML'
      C,15X,'GREEN NO.12,107,12,' DUT NO.12,LINE,15,PIX,12,LML')
0196 IF(CAC.FG.0)WRITE(6,1205)
0197 1200 FORMAT(15X,' Y Z DOTNO LINE PIX LML'
      C 16X,' Y Z DOTNO LINE PIX LML')
0198 IF(CAC.EQ.1)WRITE(6,1200)
      C NO= SORT BY IPV ORDER SECONDARY SORT ON IPX
      DO 210 I=1,210
0200 210 I=1,210
0201 I=1,210
0202 000 I=1
0203 LAM=0 I=CHANGE FLAG
0204 211 CONTINUE
0205 IF(I.EQ.200) GO TO 250 I=ITERATION LIMITER
0206 IF(IPV(I)) .LT. IPV(TAB(I+1)) GO TO 220
0207 IF(IPV(I)) .EQ. IPV(TAB(I+1)) GO TO 221
0208 ITAB(I)=I I=SWAP PLACES
0209 TAB(I)=TAB(I+1)
0210 TAB(I+1)=I
0211 LAM=1 I=FLAG ONE SWAP
0212 GO TO 220
0213 IF(IPV(TAB(I))) .GT. IPV(TAB(I+1)) GO TO 223
0214 I=1
0215 IF(I.LT.200) GO TO 211
0216 I=ITERATION LIMITER
0217 IF(LAM.EQ.0) GO TO 250
      LAM=0
0218 1000
0219 101
      GO TO 211
0220 250 CONTINUE I=US EPOCH THE SORT
      DO 212 I=1,50
0221 1000(I)=IPV(I)
0222 1000(I)=IPV(I)
0223 1000(I)=IPV(I)
0224 1000(I)=IPV(I)
0225 1000(I)=IPV(I)
0226 1000(I)=IPV(I)
0227 1000(I)=IPV(I)

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0220      J0010=(L6-10)16
0220      WRITE(6,1005) IPV(15),IPV(15),15,15,15,CLBL(15),OLBL(15),
0220      IPV(16),IPV(16),16,16,16,CLBL(16),OLBL(16)
0230      C
0230      212      CONTINUE
0230      NPM WHITE PAGE 2 OF THE SORTED LISTING
0231      WRITE(6,1006)
0232      DO 213 I=117,103
0233      I707AM(11)
0234      I007AM(11+07)
0235      I707(17-11)/10+1
0236      L00(100-1)/10+1
0237      J707(17-11)10+1
0238      J0010=(L6-10)16
0239      WRITE(6,1005) IPV(17),IPV(17),17,17,17,CLBL(17),OLBL(17),
0239      IPV(18),IPV(18),18,18,18,CLBL(18),OLBL(18)
0240      C
0240      213      CONTINUE
0241      WHITE(6,1006) "1707"
0242      FORMAT(12,10,15,15,10,10,20,122,10,15,15,10,10,20)
0242      C DEFINE GRAPHING CHARACTERS FOR ALL DUTS
0242      C CAP IS THE ARRAY OF ANALYST LABELS
0242      C CAR IS THE DENSITY PLOT DERIVED FROM CAR
0243      1006      FORMAT(
0244      DO 300 I=1,101
0245      DO 300 J=1,61
0246      MAP(I,J)=BLANK
0247      300      CONTINUE
0248      DO 302 I=1,4
0249      CAR(I)=BLANK
0250      CAR(I)=BLANK
0251      I007(11)
0252      I007(11)
0253      IF(I1,GT,HIGH) I007(11)
0254      IF(I1,LT,LOW) I007(11)
0255      IF(I1,GT,HIGH) I007(11)
0256      IF(I1,LT,LOW) I007(11)
0257      I007(11)
0258      I007(11)
0259      IF(OLBL(11)) EG,IB,AND,AK,EG,OLBL TO 313
0260      C IF NO DOT CARDS PLOT ALL 'S' AND 'S'S
0261      DO 312 I=1,4
0262      IF(OLBL(11)) EG,IB,AND,AK,EG,OLBL TO 313
0263      GO TO 3302
0264      313      CONTINUE I007 HAVE A GOOD LABEL TO PLOT
0265      CAR(I)=CHAR(10)
0266      DO 325 I=2,10
0267      IF(CAR(I),IV) EG,NUM(42)) MAP(I,IV)=NUM(42-1)
0268      IF(CAR(I),IV) EG,AND,MAP(I,IV)=NE,0) MAP(I,IV)=NUM(0)
0269      IF(CAR(I),IV) EG,MAP(I,IV)=NUM(0)
0270      IF(CAR(I),IV) EG,AND,MAP(I,IV)=OLBL(11)
0271      IF(CAR(I),IV) EG,AND,MAP(I,IV)=IB,
0272      CAR(I)=MAP(I,IV)
0273      IF(CAR(11)) EG,0) CAR(11)=0 TO PLOTS AS A SPARE DELETION DESTRUCTIVE SCALE
0274      DO 314 I=1,6
0275      IF(CAR(11)) EG,NUM(42)) I007(11)=CHAR(10)
0276      314      CONTINUE I007 AND CAR HAVE DELETED BY COLUMN TO SAVE SPACE

```

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OF POOR QUALITY



PROGRAM SECTIONS

NUMBER	NAME	SIZE	ATTRIBUTES
1	SCODE1 010152 2101		R=I,CON,LCL
2	SCDATA 000210 00		R=I,CON,LCL
3	SIDATA 001030 003		R=I,CON,LCL
4	SIDATA 001030 003		R=I,CON,LCL
5	SIDATA 001030 003		R=I,CON,LCL
6	GRAPH 000010 4		R=I,CON,LCL
7	ANCLL 000120 40		R=I,CON,LCL
8	PLOT 001210 036		R=I,CON,LCL

VARIABLES

NAME	TYPE	ADDRESS	NAME	TYPE	ADDRESS	NAME	TYPE	ADDRESS
AL	I=2	0-030776	AVST	I=0	0-006572	BLANK	L=1	0-007007
CONV	R=0	0-006402	CONV	R=0	0-006572	DASH	L=1	0-007010
GCG	I=2	0-030754	GIN	I=0	0-003262	HIGHX	I=2	0-007050
IF	I=2	0-031110	III	I=2	0-031112	IOD	I=0	0-003266
ITER	I=2	0-030760	IV	I=2	0-031002	IV	I=2	0-031100
J3	I=2	0-031030	J4	I=2	0-031032	IS	I=2	0-031050
J6	I=2	0-031066	J	I=2	0-030776	JJ	I=2	0-031012
J2	I=2	0-031026	J3	I=2	0-031026	J4	I=2	0-031040
J7	I=2	0-031074	J8	I=2	0-031076	K	I=2	0-031000
KL	I=2	0-031106	K7	I=2	0-031106	L	I=2	0-031102
LOWV	I=2	0-030766	L1	I=2	0-031020	L2	I=2	0-031022
L5	I=2	0-031054	L6	I=2	0-031056	L7	I=2	0-031070
NEG	I=2	0-031216	PLUS	L=1	0-007000	Q	I=2	0-000321
R3	R=0	0-030706	R4	R=0	0-030712	R5	R=0	0-030740
STATUS	I=2	0-000006	SVH	I=2	0-003216	S1	R=0	0-030710
S4	R=0	0-030732	S5	R=0	0-030740	S6	R=0	0-030750

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ARRAYS

NAME	TYPE	ADDRESS	SIZE	DIMENSIONS
CON	L=1	0-001506	000321	104 (209)
CHN	L=1	0-025224	000020	0 (16)
CHV	L=1	0-007011	000013	5 (11)
CHI	I=2	0-001506	000002	209 (209)
CH2	I=2	0-000606	000002	209 (209)
CH3	I=2	0-023046	000002	209 (209)
CH4	I=2	0-023710	000002	209 (209)
CHL	L=1	0-000322	000322	105 (210)
CH5	R=0	0-000606	000100	32 (16)
CHV	R=0	0-000606	000100	32 (16)
CH7	L=1	0-000606	000321	104 (209)
DATE	I=2	0-000002	000002	2 (2)
DLBL	L=1	0-000000	000322	105 (210)
DOTLEY	L=1	0-025248	000002	209 (209)
DDYNO	I=2	0-030034	000002	209 (209)
DRAT	I=2	0-000000	000002	2 (2)

ATRIPOLOS/NO

DIE	1-4	0-003226	000030	12	(6)
FILL	1-2	7-000010	000110	36	(36)
FMAP	1-1	0-000322	000321	104	(19,11)
GMAP	1-1	0-000000	000321	104	(19,11)
GY	1-1	0-002350	000662	209	(2,209)
GMAP	1-2	0-002350	000662	209	(11,19)
GYP	1-1	0-002350	000662	209	(2,11,19)
ISW	1-2	0-024552	000020	8	(8)
ITN	1-4	0-000502	000030	12	(6)
IN	1-1	0-026216	000107	35	(71)
IA	1-1	0-026107	000107	35	(71)
INDEX	1-2	0-026326	000662	209	(209)
IPX	1-4	0-003272	001510	420	(210)
IPY	1-4	0-005002	001510	420	(210)
IOV	1-1	0-025176	000000	3	(6)
LAL	1-1	0-025572	000050	20	(40)
MAP	1-1	0-007026	014021	3000	(101,01)
NAME1	1-1	0-025204	000010	4	(8)
NAME2	1-1	0-025214	000010	4	(8)
NUM	1-1	0-025662	000013	5	(11)
PLX	0-4	0-000000	001504	410	(209)
PLV	0-4	0-001504	001504	410	(209)
PTC	1-1	0-024055	000391	104	(209)
TAR	1-2	0-027170	000664	210	(210)
TEST	1-4	0-000512	000030	12	(6)

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LABELS

LABEL	ADDRESS	LABEL	ADDRESS	LABEL	ADDRESS	LABEL	ADDRESS
1	1-000346	2	00	3	00	71	00
91	3-001212	10	00	19	00	123	00
200	00	210	00	211	1-000534	212	00
220	1-005014	221	1-000732	223	1-000604	230	1-005004
302	00	312	00	313	1-000600	314	00
330	00	401	1-000626	402	1-000574	404	1-000700
405	1-001400	446	3-000130	448	00	454	1-001204
616	00	620	00	621	00	623	00
620	00	629	00	630	00	640	00
900	3-000000	91A	1-002002	919	1-000032	974	1-000132
1000	00	1003	3-000502	1004	3-000550	1005	3-000622
1201	3-000166	1202	3-000306	1203	3-000400	1204	3-000422
1206	3-001022	2010	00	2020	3-000014	2021	3-000030
3031	3-001364	3033	00	3034	3-001432	3040	3-001332
3042	3-001274	3043	3-001310	3302	1-001000	4003	3-000030
4001	00	4041	3-000124	4042	00	4043	00

FUNCTIONS AND SUBROUTINES REFERENCED

CLOS PETX OFENS SUBIT

TOTAL SPACE ALLOCATED = 006702 0953

### **3.2.6 SOFTWARE COMPONENT 6 (SWPLT)**

The program from which CAMPLT grew had the wrong format for the plots. SWPLT was added to do the plotting in the correct format. There are many unused statements in SWPLT.

#### **3.2.6.1 Linkages**

SWPLT is called by CAMPLT after the plotting characters are defined.

#### **3.2.6.2 Interfaces**

SWPLT interfaces with CAMPLT through the calling sequence and the labeled commons /GRAPH/ and /PLOT/.

#### **3.2.6.3 Inputs**

All inputs for SWPLT are from CAMPLT.

#### **3.2.6.4 Outputs**

SWPLT creates the actual line printer plot. The headings are created by CAMPLT.

#### **3.2.6.5 Storage**

Total space allocated = 5073

#### **3.2.6.6 Description**

SWPLT clears the graph array, enters the plotting characters, and writes the graph to the line printer.

#### **3.2.6.7 Flowchart**

Not applicable.

#### **3.2.6.8 Listing**

```

0001 C          SUBROUTINE SPLT(C1A4)
0002 C          THIS PROGRAM IS A MODIFIED VERSION OF ANOTHER
0003 C          PROGRAM AND USES STATEMENTS
0004 C          ITS PURPOSE IS TO CREATE SPECTRAL PLOTS IN THIS FORMAT
0005 C          IT IS CALLED BY C1A4
0006 C          PLT1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63,64,65,66,67,68,69,70,71,72,73,74,75,76,77,78,79,80,81,82,83,84,85,86,87,88,89,90,91,92,93,94,95,96,97,98,99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136,137,138,139,140,141,142,143,144,145,146,147,148,149,150,151,152,153,154,155,156,157,158,159,160,161,162,163,164,165,166,167,168,169,170,171,172,173,174,175,176,177,178,179,180,181,182,183,184,185,186,187,188,189,190,191,192,193,194,195,196,197,198,199,200,201,202,203,204,205,206,207,208,209,210,211,212,213,214,215,216,217,218,219,220,221,222,223,224,225,226,227,228,229,230,231,232,233,234,235,236,237,238,239,240,241,242,243,244,245,246,247,248,249,250,251,252,253,254,255,256,257,258,259,260,261,262,263,264,265,266,267,268,269,270,271,272,273,274,275,276,277,278,279,280,281,282,283,284,285,286,287,288,289,290,291,292,293,294,295,296,297,298,299,300,301,302,303,304,305,306,307,308,309,310,311,312,313,314,315,316,317,318,319,320,321,322,323,324,325,326,327,328,329,330,331,332,333,334,335,336,337,338,339,340,341,342,343,344,345,346,347,348,349,350,351,352,353,354,355,356,357,358,359,360,361,362,363,364,365,366,367,368,369,370,371,372,373,374,375,376,377,378,379,380,381,382,383,384,385,386,387,388,389,390,391,392,393,394,395,396,397,398,399,400,401,402,403,404,405,406,407,408,409,410,411,412,413,414,415,416,417,418,419,420,421,422,423,424,425,426,427,428,429,430,431,432,433,434,435,436,437,438,439,440,441,442,443,444,445,446,447,448,449,450,451,452,453,454,455,456,457,458,459,460,461,462,463,464,465,466,467,468,469,470,471,472,473,474,475,476,477,478,479,480,481,482,483,484,485,486,487,488,489,490,491,492,493,494,495,496,497,498,499,500,501,502,503,504,505,506,507,508,509,510,511,512,513,514,515,516,517,518,519,520,521,522,523,524,525,526,527,528,529,530,531,532,533,534,535,536,537,538,539,540,541,542,543,544,545,546,547,548,549,550,551,552,553,554,555,556,557,558,559,560,561,562,563,564,565,566,567,568,569,570,571,572,573,574,575,576,577,578,579,580,581,582,583,584,585,586,587,588,589,590,591,592,593,594,595,596,597,598,599,600,601,602,603,604,605,606,607,608,609,610,611,612,613,614,615,616,617,618,619,620,621,622,623,624,625,626,627,628,629,630,631,632,633,634,635,636,637,638,639,640,641,642,643,644,645,646,647,648,649,650,651,652,653,654,655,656,657,658,659,660,661,662,663,664,665,666,667,668,669,670,671,672,673,674,675,676,677,678,679,680,681,682,683,684,685,686,687,688,689,690,691,692,693,694,695,696,697,698,699,700,701,702,703,704,705,706,707,708,709,710,711,712,713,714,715,716,717,718,719,720,721,722,723,724,725,726,727,728,729,730,731,732,733,734,735,736,737,738,739,740,741,742,743,744,745,746,747,748,749,750,751,752,753,754,755,756,757,758,759,760,761,762,763,764,765,766,767,768,769,770,771,772,773,774,775,776,777,778,779,780,781,782,783,784,785,786,787,788,789,790,791,792,793,794,795,796,797,798,799,800,801,802,803,804,805,806,807,808,809,810,811,812,813,814,815,816,817,818,819,820,821,822,823,824,825,826,827,828,829,830,831,832,833,834,835,836,837,838,839,840,841,842,843,844,845,846,847,848,849,850,851,852,853,854,855,856,857,858,859,860,861,862,863,864,865,866,867,868,869,870,871,872,873,874,875,876,877,878,879,880,881,882,883,884,885,886,887,888,889,890,891,892,893,894,895,896,897,898,899,900,901,902,903,904,905,906,907,908,909,910,911,912,913,914,915,916,917,918,919,920,921,922,923,924,925,926,927,928,929,930,931,932,933,934,935,936,937,938,939,940,941,942,943,944,945,946,947,948,949,950,951,952,953,954,955,956,957,958,959,960,961,962,963,964,965,966,967,968,969,970,971,972,973,974,975,976,977,978,979,980,981,982,983,984,985,986,987,988,989,990,991,992,993,994,995,996,997,998,999,1000,1001,1002,1003,1004,1005,1006,1007,1008,1009,1010,1011,1012,1013,1014,1015,1016,1017,1018,1019,1020,1021,1022,1023,1024,1025,1026,1027,1028,1029,1030,1031,1032,1033,1034,1035,1036,1037,1038,1039,1040,1041,1042,1043,1044,1045,1046,1047,1048,1049,1050,1051,1052,1053,1054,1055,1056,1057,1058,1059,1060,1061,1062,1063,1064,1065,1066,1067,1068,1069,1070,1071,1072,1073,1074,1075,1076,1077,1078,1079,1080,1081,1082,1083,1084,1085,1086,1087,1088,1089,1090,1091,1092,1093,1094,1095,1096,1097,1098,1099,1100,1101,1102,1103,1104,1105,1106,1107,1108,1109,1110,1111,1112,1113,1114,1115,1116,1117,1118,1119,1120,1121,1122,1123,1124,1125,1126,1127,1128,1129,1130,1131,1132,1133,1134,1135,1136,1137,1138,1139,1140,1141,1142,1143,1144,1145,1146,1147,1148,1149,1150,1151,1152,1153,1154,1155,1156,1157,1158,1159,1160,1161,1162,1163,1164,1165,1166,1167,1168,1169,1170,1171,1172,1173,1174,1175,1176,1177,1178,1179,1180,1181,1182,1183,1184,1185,1186,1187,1188,1189,1190,1191,1192,1193,1194,1195,1196,1197,1198,1199,1200,1201,1202,1203,1204,1205,1206,1207,1208,1209,1210,1211,1212,1213,1214,1215,1216,1217,1218,1219,1220,1221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SPLT,FTC /TFOUR/CKS/WR

PROGRAM SECTIONS

NUMBER	NAME	SIZE	ATTRIBUTES
2	TC LCL	000962	249
3	DATA 000006	15	000006
4	DATA 017006	1970	000006
6	PLT 000010	000	000006
7	DATA 000006	3	000006

ENTRY 021.75

NAME	TYPE	ADDRESS	NAME	TYPE	ADDRESS	NAME	TYPE	ADDRESS	NAME	TYPE	ADDRESS
SPLT		1-000000									

VARIABLES

NAME	TYPE	ADDRESS	NAME	TYPE	ADDRESS	NAME	TYPE	ADDRESS	NAME	TYPE	ADDRESS
BLANK	L01	4-017356	DASH	L01	4-017352	D7L	L01	4-017357	D7Y	L01	4-017352
J	L02	4-017374	K	L02	4-017376	L	L02	4-017402	LW	L01	4-017351
SPLT	L02	4-017364	PCEVT	L01	4-017366	PERIOD	L02	4-017362	PLUS	L01	4-017355
STAN	L01	4-017354	X	L01	4-017368	Y	L02	4-017370			

ARRAYS

NAME	TYPE	ADDRESS	SIZE	DIMENSIONS
ALABEL	L02	4-017332	000010	4 (12)
B0	L04	4-001600	001514	410 (1205)
B02P	L04	4-001600	001514	410 (11,15)
CHAB	L01	4-001600	000321	1 4 (215)
CP1	L02	4-017372	000642	209 (215)
CH2	L02	4-017372	000642	209 (205)
CH3	L02	4-017372	000642	209 (205)
CH4	L02	4-017376	000642	209 (205)
DET	L02	4-017376	000642	209 (205)
DATE	L02	4-017376	000642	209 (205)
G	L04	4-017376	000642	410 (11,15)
CHAP	L04	4-017376	000642	410 (11,15)
ICH	L02	4-017376	000642	410 (11,15)
RSP	L02	4-017376	000642	410 (11,15)
P	L02	4-017376	000642	410 (11,15)
PLABEL	L01	4-017342	000010	4 (12)
RAD	L02	4-017376	000642	410 (11,15)
SCALE	L04	4-017376	000642	410 (11,15)
TRAJ	L01	4-017376	000642	410 (11,15)

LABELS

LABEL	ADDRESS	LABEL	ADDRESS	LABEL	ADDRESS	LABEL	ADDRESS
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OF POOR QUALITY



26	00	106	00	105	00	200	00	5-CH000
400	00	970	00	901	00	502	00	5-CH000
520	3-10310	900	00	907	00	900	00	
910	00	911	00	912	00	913	00	
915	00	910	00	917	00	910	00	
509	00							

TOTAL SPACE ALLOCATED = 821642 9273

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 OF POOR QUALITY

### 3.2.7 SOFTWARE COMPONENT 7 (FETCX)

FETCX is identical to FETCH except that it accesses [200,7] DOTDATA.ACA rather than a local file. FETCH is an undocumented utility.

#### 4. OPERATION

Each module in this system is run by a batch deck. FLOCON has copies of these decks. Maintenance and generation of the data files is not addressed in this document.